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ac. 31, '07. GB-12-1907

Ambr 30446 Oct 25-1907

Shm. Fig. 1, 2, 3.

Fig. 1.

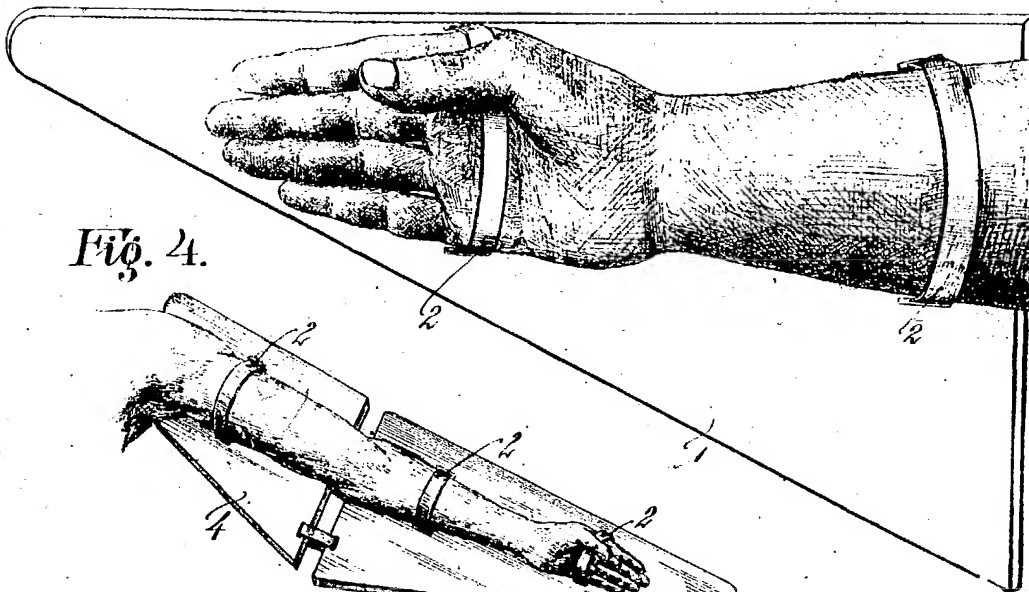


Fig. 4.

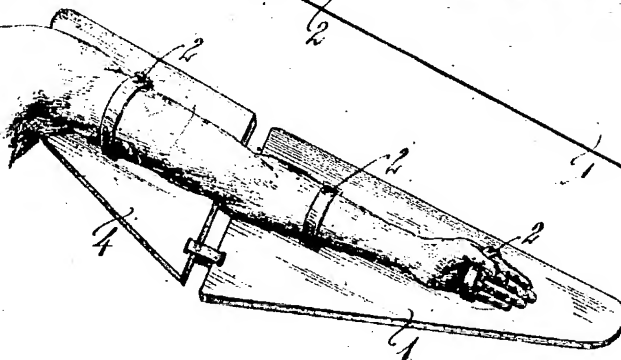


Fig. 2.

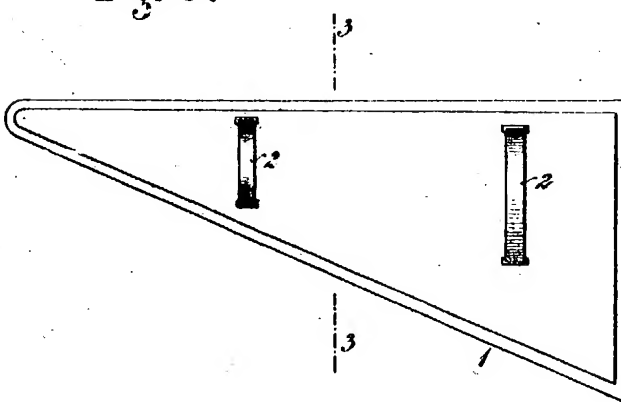
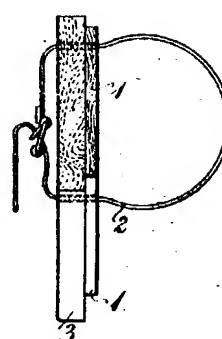


Fig. 3.



[This Drawing is a reproduction of the Original on a reduced scale]

3622

Feb 13 - 1907

A.D. 1907. FEB. 13. N: 3622.
KRISKOVIC'S PROVISIONAL SPECIFICATION.

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Fig. 1

SHEET

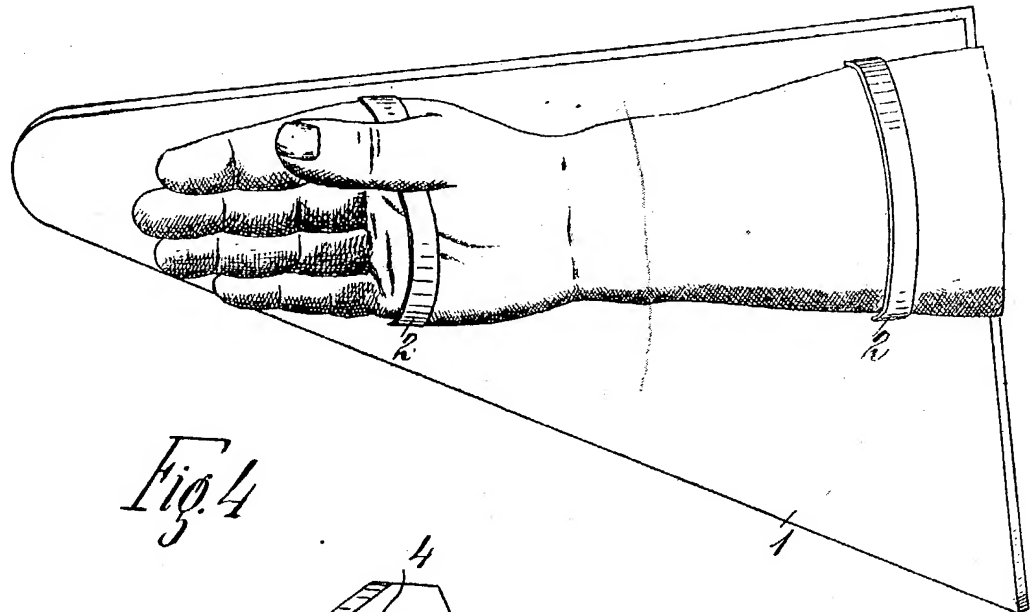
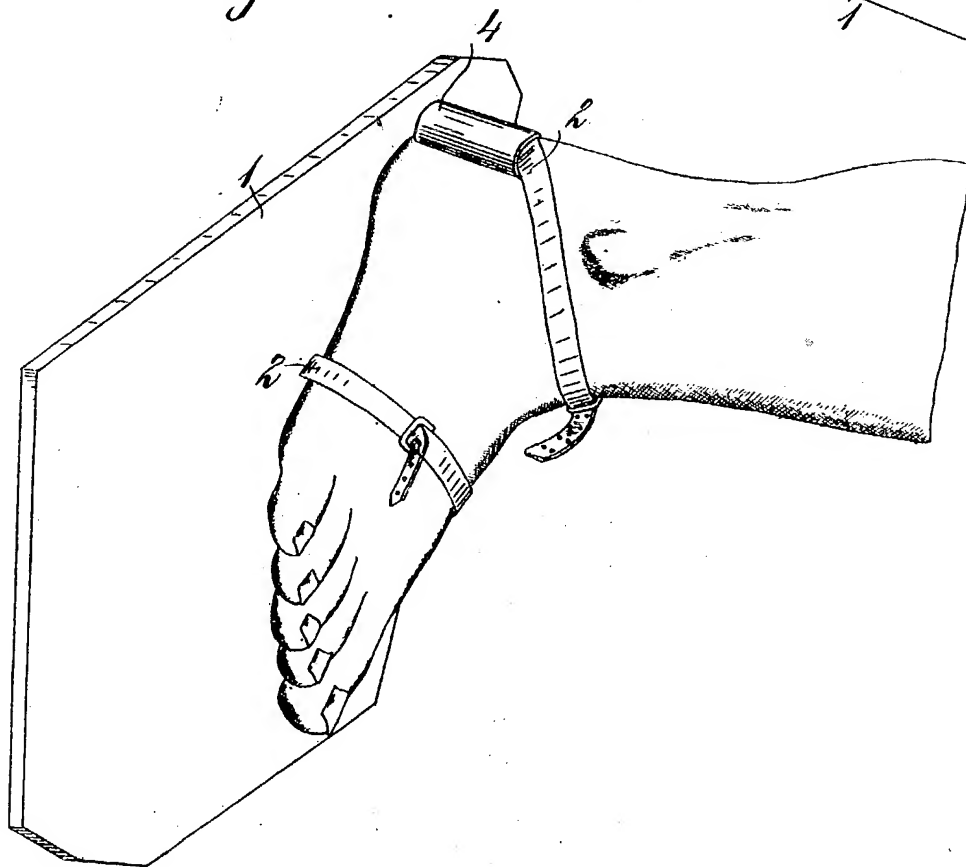


Fig. 4



[This Drawing is a reproduction of the Original on a reduced scale.]

Fig. 2

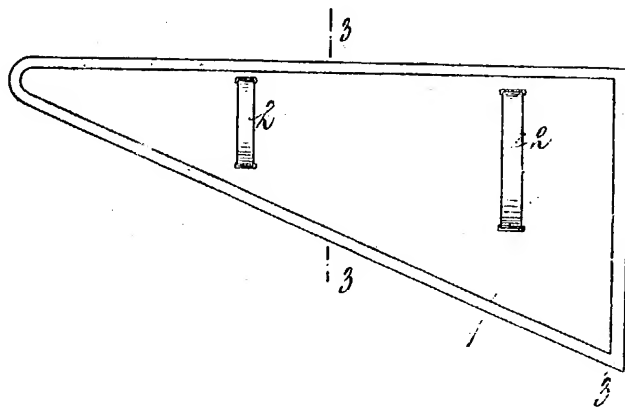


Fig. 3

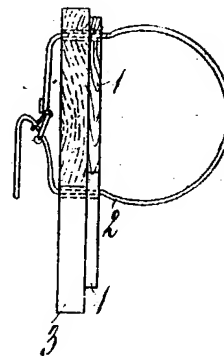


Fig. 5

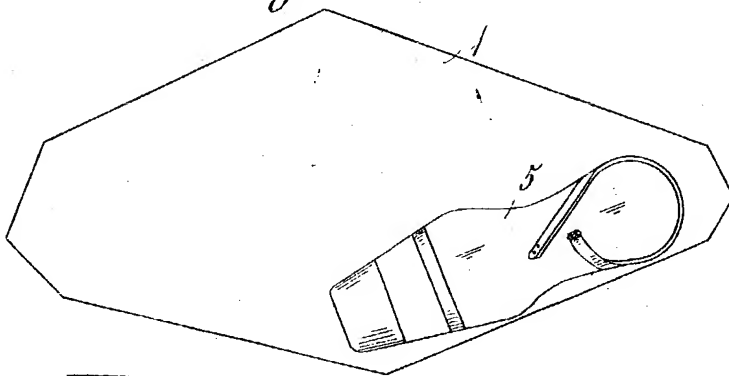
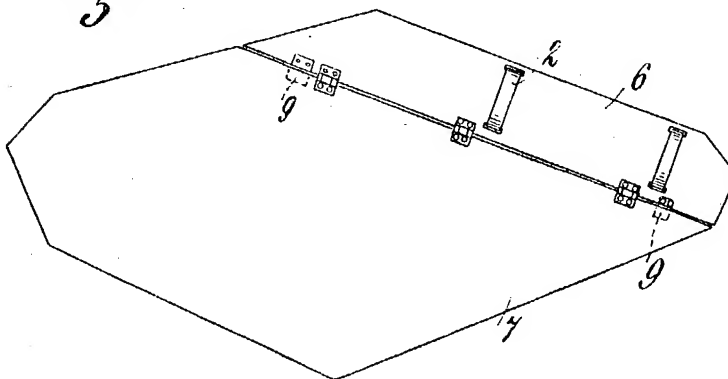


Fig. 6



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A.D. 1907

Date of Application, 13th Feb., 1907

Complete Specification Left, 13th Aug., 1907—Accepted, 31st Dec., 1907

PROVISIONAL SPECIFICATION.

An Improved Swimming Fin or Blade.

I, MICHAEL KRISKOVIC, of Senj, Croatia, Austria, Head Forester, do hereby declare the nature of this invention to be as follows:—

The subject-matter of the present invention consists of a swimming fin or blade, by means of which, not only an easier but also a more effective swimming stroke is attainable, whilst up to the present time when using the necessary hand and foot movements for swimming, the surfaces of the hands and feet only serve as surfaces of support and propulsion. These surfaces of resistance or impact to the water to be displaced, are now considerably enlarged according to the present invention without injuring the liberty of motion of the hands and feet.

In the drawing the subject matter of the present invention is shown by way of example in different forms of construction *viz*:—

Fig 1, the first embodiment of my invention, shows a swimming fin for the hand in general view.

Fig 2 shows a view of the similar fin in plan.

Fig 3 shows a section on the line 3—3 of Fig. 2.

Fig. 4 shows a view of the swimming fin in plan as constructed for attachment to the foot, while—In Fig 6 another construction of the swimming fin for the foot seen from beneath is represented.

The essence of the present invention consists in the fact that: Plates 1 made of a stiff, preferably light, suitable material are fastened to the hands and feet in a convenient manner, for example by means of a buckle. As the result of this arrangement the surface of support and propulsion by which the water is displaced, is greatly increased whereby not only an easier but also a considerably more efficient swimming is obtained. According to the first embodiment a plate 1 is fixed by means of buckles to the hands; that is to say, at the back of the hand on one end, and on the other at the forearm. The hand-swimming fin 1 is formed preferably of triangular shape, the apex of the triangle being directed forward when in use, in order to easily divide the water in executing the necessary strokes. The propelling surface is increased in the manner shown; a plate is provided which is more or less flexibly connected to the hand-swimming fin 1 and extended along the upper arm by means of buckles or the like. The view of the hand-swimming fin shown in Fig. 1 is suitable only for persons acquainted with the art of swimming, who by the application of swimming fins constructed according to my invention, can move in the water not only more easily but also more quickly. For persons unable to swim, the hand-swimming fins constructed according to Figs 2 & 3 are employed. These fins bear on the outer side, when in use a thick cork plate 3 corresponding to the form, of the fin 1 and rigidly connected with same. Through this arrangement, the hand-swimming fins acquire the character of a life-saving apparatus.

The foot-swimming fins consist of a polygonal plate, which is also secured to the feet by means of a buckle 2 or the like. The arrangement must be preferably constructed so that the feet reach almost to the inner edge of the

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Krskovic's Improved Swimming Fin or Blade.

fins in order to avoid hindering the freedom of motion of the feet. In order to secure the blade to the foot when standing the foot-swimming fin is provided with a heel-piece 4, which supports the heel. According to the form shown in Fig 5 a sandal 5 or the like is secured to the foot-swimming fin, in which the foot is placed and secured by means of a buckle or the like. 5

According to Fig. 6 the foot-swimming fins are so hinged that they may be folded outwardly for the purpose of opposing to the water to be displaced the full surface of the fins or blades as surfaces for support and propulsion, when striking out the feet, while in drawing in the feet, the fins oppose to the water only a small surface corresponding approximately in size to the surface of the foot. For this purpose the part 7 is flexibly connected by means of hinges with the part 6 of the fin corresponding in size to the surface of the foot in such a way that the part 7 of the fin is folded outwardly, and yet the opposite movement of the part 7 is limited by a stop 9, so that the parts of the fins place themselves at an obtuse or right angle to each other, in one position and 15 are in one plane in effecting the swimming stroke.

Dated this 13th day of Febry. 1907.

J. D. ROOTS & Co., -

Agents for the Applicant,

Thanet House, Temple Bar, London. W.C. 20

COMPLETE SPECIFICATION.

"An Improved Swimming Fin or Blade."

I, MICHAEL KRISKOVIC, of Senj, Croatia, Austria Head Forester, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:— 25

Fins constructed of plates or rigid material for attaching to the hands or feet are already known. Up to the present however no consideration has been given to any improvement in the construction of the plates by which an easier displacement of the water would result. In accordance with the nature of the present invention the plate of the hand-fin is made triangular in shape and when in use the point projects towards the front, the water being thus more readily displaced. 30

The accompanying drawings shew three examples of construction of the invention:— 35

Fig. 1 is a perspective view of the device: Fig. 2 is a plan of a modified construction: while Fig. 3 shows a section of Fig. 2 along the line 3—3. Fig 4 shows the jointed fin for the upper arm.

Plate 1 which is constructed of rigid material and is fastened to the hand and forearm by means of buckles 2 is triangular in shape and when in use the point projects in front thus readily displacing the water when a stroke is made. In order to increase the area of resistance another plate extending over the upper arm and attached to it by means of buckles and the like, can be arranged and is jointed to plate 1, as shown in Fig 4. The two shapes of hand-fins are only suitable for persons able to swim. People without a knowledge of swimming would use the fin shewn in Figs. 2 and 3. This has 45 attached to the outside of fin 1 when in use, a cork plate 3 of corresponding shape and securely fastened to it. By this arrangement the hand-fin can also be used as a life-saving appliance.

Kriskovic's Improved Swimming Fin or Blade.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A fin consisting of a rigid plate to be attached to the hand and forearm
5 characterised by a plate (1) of triangular construction with the point projecting in front when in use, so as to readily displace the water when a stroke is made.
2. A fin according to Claim 1 characterised by being jointed to another plate attached to it for the purpose of increasing the area of resistance to the water
10 without influencing the motion of the arms.
3. A fin according to Claim 1 characterised by a cork-plate (3) securely attached to the outside of the fin (1) in use, for the purpose of utilising the hand-fin for persons unable to swim and as a life-saving appliance.

Dated Feb 13th 1907.

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J. D. ROOTS & Co.,
Agents for the Applicant,
Thanet House Temple Bar London.

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